

SEQUENCE LISTING

<110> Bar-Eli, Menashe
Green, Larry L.

<120> USE OF ANTIBODIES AGAINST THE MUC18
ANTIGEN

<130> ABGENIX.030C1

<150> 10/330,580

<151> 2002-12-26

<160> 40

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 121

<212> PRT

<213> Homo Sapiens

<400> 1

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Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Gly	Ser	Ile	Ser	Ser	Tyr
			20					25					30		
Tyr	Trp	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
	35					40						45			
Gly	Tyr	Ile	Tyr	Tyr	Thr	Trp	Thr	Ser	Asn	Tyr	Asn	Pro	Ser	Leu	Lys
	50				55						60				
Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln	Phe	Ser	Leu
65				70						75				80	
Arg	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala
			85					90						95	
Arg	Asp	Gln	Gly	Gln	Trp	Leu	Leu	Pro	Asp	Ala	Phe	Asp	Ile	Trp	Gly
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Gln	Gly	Thr	Met	Val	Thr	Val	Ser	Ser							
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<211> 112

<212> PRT

<213> Homo Sapiens

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Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	Arg	Ser
		20						25				30			
Asn	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln	Ser
	35					40					45				
Pro	His	Leu	Leu	Ile	Tyr	Leu	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val	Pro

50		55		60	
Asp Arg Phe Ser Gly	Ser Gly Ser Gly Thr	Asp Phe Thr Leu Lys Ile			
65	70	75	80		
Ser Arg Val Glu Ala	Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala				
	85	90	95		
Gln Gln Ser Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys					
100	105	110			

<210> 3
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 <212> DNA
 <213> Homo Sapiens

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 ccagggaagg gactggagtg gattggctat atctattaca cttggacctc caactacaac 180
 cctcctctca agagtcgctg caccatatca gtggacacgt ccaaaaacca gttctccctg 240
 aggctgagtt ctgtgaccgc tgcggacacg gccgtttatt actgtgagag agatcagggg 300
 cagtgggttac taccgatgc ttttgatatc tggggccaag ggacaatggt caccgtctct 360
 tcag 364

<210> 4
 <211> 337
 <212> DNA
 <213> Homo Sapiens

<400> 4
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 atctcctgca ggtctagtca gagcctcctg cgtagtaatg gatacaacta tttggattgg 120
 tacctgcaga agccaggaca gtctccacat ctctgatct atttgggttc taatcggggc 180
 tccgggggtcc ctgacagggt cagtggcagt ggatcaggca cagattttac actgaaaatc 240
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 atcaccttcg gccaaaggac acgactggag attaaac 337

<210> 5
 <211> 117
 <212> PRT
 <213> Homo Sapiens

<400> 5
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 20 25 30
 Thr Tyr His Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45
 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60
 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80
 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 Cys Ala Arg Gly Gly Asp Gly Tyr Lys Tyr Trp Gly Gln Gly Thr Leu

Val Thr Val Ser Ser
115

105

110

<210> 6
<211> 107
<212> PRT
<213> Homo Sapiens

<400> 6
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1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Asn Asn
20 25 30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45
Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65 70 75 80
Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Trp Pro Arg
85 90 95
Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 7
<211> 352
<212> DNA
<213> Homo Sapiens

<400> 7
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cagcacccag ggaagggcct ggagtggatt ggggtacatct attacagtgg gagcacctac 180
tacaacccgt ccctcaagag tgcagttacc atatcagtag acacgtctaa gaaccagttc 240
tccctgaagc tgagctctgt gactgccgcg gacacggccg tgtattactg tgcgagaggg 300
ggagatggct acaagtactg gggccagggg accctgggtca ccgtctcctc ag 352

<210> 8
<211> 322
<212> DNA
<213> Homo Sapiens

<400> 8
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ggccaggctc ccaggctcct catctatggt gcatccacca gggccactgg tatcccagcc 180
aggttcagtg gcagtgggtc tgggacagag ttcactctca ccatcagcag cctgcagtct 240
gaagattttg cagtttatta ctgtcagcag tataataact ggcctcggac gttcggccaa 300
gggaccaagg tggaaatcaa ac 322

<210> 9
<211> 121

<212> PRT

<213> Homo Sapiens

<400> 9

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Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1           5           10           15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Tyr
      20           25           30
Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
      35           40           45
Gly Tyr Ile Tyr Tyr Thr Trp Thr Thr Asn Tyr Asn Pro Ser Leu Lys
      50           55           60
Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
65           70           75           80
Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Leu Tyr Tyr Cys Ala
      85           90           95
Arg Asp Gln Gly Gln Trp Leu Leu Pro Asp Ala Phe Asp Ile Trp Gly
      100          105          110
Gln Gly Thr Met Val Thr Val Ser Ser
      115          120
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<210> 10

<211> 109

<212> PRT

<213> Homo Sapiens

<400> 10

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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Asn Tyr
      20           25           30
Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
      35           40           45
Tyr Gly Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
      50           55           60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65           70           75           80
Glu Asp Phe Ala Thr Tyr Tyr Cys Arg Gln Ser Tyr Ser Thr Pro Pro
      85           90           95
Glu Cys Ser Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
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<210> 11

<211> 364

<212> DNA

<213> Homo Sapiens

<400> 11

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ccaggaagg gactggagtg gattggctat atctattaca cttggaccac caactacaac 180
ccctccctca agatcgcggt caccatatca gtggacacgt ccaagaacca gttctccctg 240
aggctgagct ctgtgaccgc tgcggacacg gccctttatt actgtgcgag agatcagggg 300
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cagtgggttac taccgatgc tttgatatc tggggccaag ggacaatggt caccgtctct 360
tcag 364

<210> 12
<211> 328
<212> DNA
<213> Homo Sapiens

<400> 12
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atcacttgcc gggcaagtca gagcattagc aactatttaa attggtatca gcagaaacca 120
ggaaaagccc ctaagctcct gatctatggt gcatccagtt tgcaaagtgg ggtcccatca 180
aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct 240
gaagattttg caacctacta ctgtcgacag agttacagta cccctccgga gtgcagtttt 300
ggccagggga ccaagctgga gatcaaac 328

<210> 13
<211> 117
<212> PRT
<213> Homo Sapiens

<400> 13
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
20 25 30
Gly Tyr Tyr Trp Thr Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
35 40 45
Trp Ile Gly Phe Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
50 55 60
Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
65 70 75 80
Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95
Cys Ala Arg Glu Gly Asp Gly Phe Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110
Val Thr Val Ser Ser
115

<210> 14
<211> 107
<212> PRT
<213> Homo Sapiens

<400> 14
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp
20 25 30
Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
35 40 45
Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro

<210> 18
 <211> 107
 <212> PRT
 <213> Homo Sapiens

<400> 18
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp
 20 25 30
 Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
 35 40 45
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Trp
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 19
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 <212> DNA
 <213> Homo Sapiens

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 ccagggaagg gactggagtg gattggctat atctattaca cttggacctc caactacaac 180
 cctccctca agagtcgctg caccatatca gtggacacgt ccaagaacca gttctccctg 240
 aggtctgagtt ctgtgaccgc tgcggacacg gccgtttact actgtgcgag agatcagggg 300
 cagtggttac taccgatgc ttttgatata tggggccaag ggacaatggt caccgtctct 360
 tcag 364

<210> 20
 <211> 322
 <212> DNA
 <213> Homo Sapiens

<400> 20
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 atcacttgcc gggcaagtca gggcattaga aatgatttag gctggtatca gcagaaacca 120
 gggaaagccc ctaagcgct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagag ttcactctca caatcagcag cctgcagcct 240
 gaagattttg caacttatta ctgtctacag cataatagtt acccgtggac gttcggccaa 300
 gggaccaagg tggaaatcaa ac 322

<210> 21
 <211> 123
 <212> PRT
 <213> Homo Sapiens

<400> 21

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Phe Ser Tyr
20 25 30
Gly Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Leu
35 40 45
Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu
50 55 60
Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Glu Thr Lys Val Arg Gly Val His Tyr Tyr Gly Met Asp Val
100 105 110
Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 22

<211> 113

<212> PRT

<213> Homo Sapiens

<400> 22

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15
Glu Arg Ala Thr Ile Ile Cys Lys Ser Ser Gln Ser Ile Leu Tyr Ser
20 25 30
Ser Asn Asn Lys Asn Tyr Leu Gly Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45
Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60
Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80
Ile Asn Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
85 90 95
Tyr Tyr Ser Thr Pro Arg Ser Phe Gly Gln Gly Thr Met Val Glu Ile
100 105 110
Lys

<210> 23

<211> 370

<212> DNA

<213> Homo Sapiens

<400> 23

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tcctgcaagg cttctgggta cacctttttt agctatgggt tcagctgggt gcgacaggcc 120
cctggacaag ggcttgagt gctgggatgg atcagcgctt acaatggtaa cacaaactat 180
gcacagaagc tccagggcag agtcaccatg accacagaca cttccacgag cacagcctac 240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagagaaact 300

aagggttcggg gagtccacta ctacggtatg gacgtctggg gccaaaggac cacggtcacc 360
gtctcctcag 370

<210> 24
<211> 340
<212> DNA
<213> Homo Sapiens

<400> 24
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atcatctgca agtccagcca gagtatttta tacagctcca acaataagaa ctacttaggt 120
tggtaccagc agaaaccagg acagcctcct aagctgctca ttactgggc atctaccgg 180
gaatccgggg tccctgcccg attcagtggc agcgggtctg ggacagattt cactctcacc 240
atcaacagcc tgcaggctga agatgtggca gtttattact gtcagcaata ttatagtact 300
cctcggtcgt tcggccaagg gaccatggtg gaaatcaaac 340

<210> 25
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<212> PRT
<213> Homo Sapiens

<400> 25
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
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Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Asn Ser Gly
20 25 30
Gly Cys Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
35 40 45
Trp Ile Gly Tyr Ile Tyr Ser Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
50 55 60
Leu Lys Ser Arg Ile Thr Leu Ser Val Asp Thr Ser Lys Asn Gln Phe
65 70 75 80
Ser Leu Lys Leu Asn Ser Met Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95
Cys Ala Arg Asp Arg Glu Thr Ala Gly Phe Asp Tyr Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 26
<211> 107
<212> PRT
<213> Homo Sapiens

<400> 26
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Asn Asn Tyr
20 25 30
Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45
Tyr Asp Ala Ser Asn Leu Glu Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Gly Leu Gln Pro

65 70 75 80
 Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Tyr Asp Thr Leu Pro Leu
 85 90 95
 Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 27
 <211> 358
 <212> DNA
 <213> Homo Sapiens

<400> 27
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 acctgcactg tctctggtgg ctccatcaac agtgggtggtt gctactggag ctggatccgc 120
 cagcaccag ggaagggcct ggagtggatt gggtagatct attccagtgg gagcacctac 180
 tacaaccgt ccctcaagag tcgaattacc ttatcagtag acacgtctaa gaaccagttc 240
 tccctgaagc tgaactctat gactgccgcg gacacggccg tgtattactg tgcgagagat 300
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<210> 28
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 <212> DNA
 <213> Homo Sapiens

<400> 28
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 gggaaagccc ctaagctcct gatctacgat gcaccaatt tggaaacagg ggtcccatca 180
 aggttcagtg gaagtggatc tgggacagat ttacttttca ccatcagcgg cctgcagcct 240
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 gggaccaagg tggagatcaa ac 322

<210> 29
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 <212> PRT
 <213> Homo Sapiens

<400> 29
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 20 25 30
 Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Ile Phe Gly Val Val Ile Asp Tyr Gly Met Asp Val Trp
 100 105 110
 Gly Gln Gly Thr Thr Val Thr Val
 115 120

<210> 30
 <211> 107
 <212> PRT
 <213> Homo Sapiens

<400> 30
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 20 25 30
 Leu Ala Trp Tyr Gln Gln Asn Pro Gly Lys Val Pro Lys Leu Leu Ile
 35 40 45
 Tyr Gly Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Val Ala Thr Tyr Tyr Cys Gln Lys Phe Ser Ser Pro Pro Phe
 85 90 95
 Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Ser
 100 105

<210> 31
 <211> 367
 <212> DNA
 <213> Homo Sapiens

<400> 31
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 tcctgtgcag cctctggatt caccttcagt agctatgcca tgcactgggt ccgccaggct 120
 ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaagtaa taaatactat 180
 gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
 ctgcaaatac acagcctgag agctgaggac acggctgtgt attactgtgc gagatcgatt 300
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 tcctcag 367

<210> 32
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 <213> Homo Sapiens

<400> 32
 gacatccaga tgaccacagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc 60
 atcacttgcc gggcgagtc gggcattaga aattatttag cctgggtatca gcagaatcca 120
 gggaaagtcc ctaagctcct gatctatggt gcatccactt tgcaatcagg ggtcccatct 180
 cggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 240
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 gggaccaaag tggatatcag tc 322

<210> 33
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 <212> PRT
 <213> Homo Sapiens

<400> 33

Gln Val Gln Leu Glu Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
20 25 30
Thr Tyr His Trp Ser Trp Ile Arg Gln His Pro Gly Arg Gly Leu Glu
35 40 45
Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr His Asn Pro Ser
50 55 60
Leu Lys Ser Arg Ile Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
65 70 75 80
Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95
Cys Ala Arg Gly Gly Asp Gly Tyr Arg Tyr Trp Gly Gln Gly Thr Leu
100 105 110
Val Thr Val Ser Ser
115

<210> 34

<211> 107

<212> PRT

<213> Homo Sapiens

<400> 34

Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Ser Asn Asn
20 25 30
Phe Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45
Phe Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65 70 75 80
Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Trp Pro Arg
85 90 95
Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 35

<211> 352

<212> DNA

<213> Homo Sapiens

<400> 35

caggtgcagc tggagcagtc ggggccagga ctggtgaagc cttcagagac cctgtccctc 60
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cagcacccag ggaggggacct ggagtggatt ggatacatct attacagtgg gagcacctac 180
cacaaccctg ccctcaagag tcgaattacc atatcagtag acacgtctaa gaaccagttc 240
tccttgaagc tgagctctgt gacggccgcg gacacggccg tgtattactg tgcgagaggg 300
ggagatggct acagatactg gggccagggg accctggtca cctgtctctc ag 352

<210> 36
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 <213> Homo Sapiens

<400> 36
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 ggccaggctc ccaggctcct catctttggt gcatccacca gggccactgg tatcccagcc 180
 aggttcagtg gcagtgggtc tgggacagaa ttcactctca ccatcagcag cctacagtct 240
 gaagattttg cagtttatta ctgtcagcag tataataact ggctcggac gttcggccaa 300
 gggaccaagg tggaaatcaa ac 322

<210> 37
 <211> 121
 <212> PRT
 <213> Homo Sapiens

<400> 37
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 20 25 30
 Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Tyr Tyr Thr Gly Asn Thr Tyr Tyr Asn Pro Ser Leu Lys
 50 55 60
 Ser Arg Val Thr Val Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
 65 70 75 80
 Lys Leu Asn Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95
 Arg Asp Pro Gly Gln Trp Leu Val Pro Asp Ala Phe Asp Ile Trp Gly
 100 105 110
 Gln Gly Thr Met Val Ser Val Ser Ser
 115 120

<210> 38
 <211> 112
 <212> PRT
 <213> Homo Sapiens

<400> 38
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Ile Pro Gly
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 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Gln Ser
 20 25 30
 Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Asp Asp Val Gly Ile Tyr Tyr Cys Met Gln Ala
 85 90 95

Leu Gln Ile Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 39
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<212> DNA
<213> Homo Sapiens

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ccagggaagg gactggagtg gattggatac atctattaca ctgggaacac ctactacaac 180
ccctccctca agagtcgagt caccgtttca gttgacacgt ccaagaacca gttctccctg 240
aagctgaact ctgtgaccgc tgcggacacg gccgtgtatt actgtgagag agatccaggc 300
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tcag 364

<210> 40
<211> 337
<212> DNA
<213> Homo Sapiens

<400> 40
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tacctgcaga agccagggca gtctccacag ctctgatct atttgggttc taatcgggcc 180
tccgggggtcc ctgacagggt cagtggcagt ggatcaggca cagattttac actgaaaatc 240
agcagagtgg aggctgacga tgttgggatt tattactgca tgcaagctct ccaaattcct 300
ctcactttcg gcggaggac caaggtggag atcaaac 337